

# State Geospatial Data Coordination Procedure

ILLINOIS

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**FEMA**



# State Geospatial Data Coordination Procedure

## Illinois

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# State Geospatial Data Coordination Procedure

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# State Geospatial Data Coordination Procedure

## Purpose of the Procedure

Flood insurance studies search for geospatial data during pre-scoping and scoping tasks. If needed data are not available, studies might fund the collection of new data and would like to know about other organizations that might share in these costs. Detailed information about the role geospatial data coordination plays in studies is in the *Geospatial Data Coordination Implementation Guide*, which is available at

<[https://hazards.fema.gov/femaportal/docs/GeoDataImplem\\_V3.pdf](https://hazards.fema.gov/femaportal/docs/GeoDataImplem_V3.pdf)>, and in *Scoping Guidelines: Pre-scoping and the Scoping Meeting*, which is available through the Regional Support Center (RSC).

Resources developed through FEMA's geospatial data coordination activities provide information about data and contacts for organizations that have geospatial data that cover large areas (like states) in which many studies are interested. Studies can avoid wasting time with dead-end searches and cold calls by starting with these proven sources of information.

One resource is this Geospatial Data Coordination Procedure. It outlines sources of geospatial data and contact information, preferences for base map data and state geospatial participation in studies, and other useful information for the State.

If you have questions about this procedure or other geospatial data coordination resources, contact the geospatial data coordination lead in your Regional Support Center:

Greg Arther, Geospatial Data Coordination Lead  
Region V Service Center  
(312) 831-3128  
[Greg.Arther@stantec.com](mailto:Greg.Arther@stantec.com)

## Default Flood Hazard Base Map for the State

The default base map for flood hazard maps for the State is an image base map (orthophoto).

## Geospatial Data Coverage

Find below information about and links to statewide (and Federal agencies' national) geospatial datasets. The list is provided to save time during pre-scoping and scoping activities when building a list of candidate geospatial datasets available for the study; it is not a prescription of datasets that must be used in a flood insurance study.

# State Geospatial Data Coordination Procedure

## Datasets for DFIRM Production

### Orthophotos

Dataset name: Illinois State Digital Orthophoto Quadrangles

Data currentness: 2011

Accuracy/Scale: 1:12,000

Ground sample resolution: 1.5 foot

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes

Dataset source: Compressed data are available from the Illinois Natural Resources Geospatial Data Clearinghouse hosted by the Illinois State Geological Survey at <https://clearinghouse.isgs.illinois.edu/data>; Uncompressed data are available from the Illinois State Library.

Dataset contact: Illinois State Geological Survey, Mark Yacucci, (217) 244-9306, [yacucci@illinois.edu](mailto:yacucci@illinois.edu)

### Transportation (roads, railroads, and airports)

Dataset name: Illinois Highway System File

Data currentness: 2018

Accuracy/Scale: 1:64,000 analog map based on USGS National Map Accuracy Standards.

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes.

Are road names part of the dataset? Yes

Dataset source: Illinois Department of Transportation at <http://apps.dot.illinois.gov/gist2/>

Dataset contact: Dan Wilcox, Chief Information Officer, Illinois Dept. of Transportation, Bureau of Information Processing, 2300 South Dirksen Parkway, Springfield, IL 62764; 217-785-4222; [dan.wilcox@illinois.gov](mailto:dan.wilcox@illinois.gov)

### Hydrography (rivers, streams, lakes, and shorelines)

Dataset name: National Hydrography Datasets (NHD)

Data currentness: 1999-2010

Accuracy/Scale: 1:100,000 and 1:24,000

Horizontal datum: NAD83

Fee associated? No

Available for redistribution? Yes

Are hydrography names part of the dataset? Yes

Dataset source: USGS at <http://nhd.usgs.gov/>

Dataset contact: [NHD@usgs.gov](mailto:NHD@usgs.gov)

Notes: Same as National Dataset. Currentness and accuracy varies. Individual counties may have accurate up to date hydrography file. Contact state/local GIS department.

### Political boundaries (county, municipal)

Dataset name: Illinois County Boundaries

Data currentness: 2007

# State Geospatial Data Coordination Procedure

Accuracy/Scale: 1:62,500 and 1:24,000

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes;

Dataset source: Illinois Natural Resources Geospatial Data Clearinghouse hosted by the Illinois State Geological Survey at <https://clearinghouse.isgs.illinois.edu/data>

Dataset contact: Illinois State Geological Survey, Information Office (217) 333-4747, [isgs@isgs.uiuc.edu](mailto:isgs@isgs.uiuc.edu)

## Public land survey system (PLSS) (township and section lines)

Dataset name: Illinois Public Land Survey System

Data currentness: 2003

Accuracy/Scale: 1:62,500 and 1:24,000

Horizontal datum: NAD 83

Fee associated? Yes; please refer to Notes section below.

Available for redistribution? Yes

Dataset source: Illinois Natural Resources Geospatial Data Clearinghouse hosted by the Illinois State Geological Survey at <https://clearinghouse.isgs.illinois.edu/data>

Dataset contact: Illinois State Geological Survey, Information Office (217) 333-4747, [isgs@isgs.illinois.edu](mailto:isgs@isgs.illinois.edu)

## Cadastral (parcels)

No state coverage available; data may be available from the counties.

## Terrain (elevation)

Illinois became part of the National Geodetic Survey Height Modernization Program (ILHMP) in 2008. The goal of this program is to upgrade the statewide network of survey benchmarks and develop a statewide high-resolution DEM data set. Nearly all high resolution LiDAR data is being collected outside this program on a county by county basis through state, local and federal efforts. Most of the collected data however, is being contributed to the ILHMP for inclusion into the statewide high-resolution DEM and distribution via the Illinois Natural Resources Geospatial Data Clearinghouse at <http://clearinghouse.isgs.illinois.edu/data/elevation/illinois-height-modernization-ilhmp-lidar-data>. The Clearinghouse will distribute the original LiDAR points as well as derivative products when fully implemented.

LiDAR acquisitions in the State are tracked by a Steering Committee for the ILHMP. The USGS Geospatial Coordinator maintains a database of the LiDAR acquisitions and planned acquisitions for the Committee. A map of the acquisition status is available from the Clearinghouse at [https://clearinghouse.isgs.illinois.edu/lidar/LiDAR\\_Status\\_2020.pdf](https://clearinghouse.isgs.illinois.edu/lidar/LiDAR_Status_2020.pdf)

# State Geospatial Data Coordination Procedure

Dataset name: Digital Elevation Model (DEM) of Illinois at 1:250,000

Data currentness: 2004-2018

Accuracy/Scale: 1:250,000

Vertical datum: not stated

Fee associated? No

Available for redistribution? Yes; Dataset source: Illinois Natural Resources Geospatial Data Clearinghouse hosted by the Illinois State Geological Survey at

<https://clearinghouse.isgs.illinois.edu/data>

Dataset contact: Sheena Beaverson (217) 244-9306, [sbeavers@illinois.edu](mailto:sbeavers@illinois.edu)

## Useful Risk MAP Discovery Data Sources

Preliminary information on Discovery data sources is provided in this document to reduce the level of effort needed on each subsequent Discovery data collection effort.

Coordination with local community sponsors for additional local data still remains an integral part of Discovery and local data should be used where appropriate.

The National Geospatial Data Coordination Procedure document contains information on data resources available from other Federal agencies (OFAs), including those that FEMA maintains at the national level, and should be used in conjunction with this State Geospatial Data Coordination Procedure document. In addition, FEMA and its contractors have created a geospatial Discovery Data Repository to host data that are not readily accessible through direct sources such as Web sites or subscription services and/or are not updated on a frequent basis. Instructions on accessing the Discovery Data Repository are given in the national Geospatial Data Coordination Procedure document.

Table 1 identifies data resources that are available at the regional and State levels, and also if there are no data available other than the national datasets. Resources in this table have been identified as appropriate for Discovery projects and may not represent the best data sources for FIRM production (please see the Preferred Base Map Sources section of this document for geospatial data that meets FIRM production requirements).

# State Geospatial Data Coordination Procedure

Table 1. Discovery Data Resources

Data	Data Source	Location
Watershed boundaries	National	Discovery Data Repository
Jurisdictional boundaries	National	Discovery Data Repository
Tribal land boundaries	National	Discovery Data Repository
State lands	Regional/State/Local	
Federal lands	National	Discovery Data Repository
Major roads	Regional/State/Local National	Discovery Data Repository
Streams	Regional/State/Local National	Discovery Data Repository
Coastal Barrier Resource Areas	National	Discovery Data Repository
Coordinated Needs Management Strategy	National	See National Operating Procedure
Topographic/ bathymetric data	National	See National Operating Procedure
AAL data from HAZUS	State	<a href="http://starrtrac.atgteams.com/library/AAL/Forms/AllItems.aspx">http://starrtrac.atgteams.com/library/AAL/Forms/AllItems.aspx</a> Contact the RSC if help is needed retrieving the data.
Coverage areas for known community and Tribal risk assessment data	Regional/State/Local	
Status of Hazard Mitigation Plans	Regional	<a href="mailto:morgan.holloway@fema.dhs.gov">morgan.holloway@fema.dhs.gov</a>
Flood control structure data	National	See National Operating Procedure
Locations of stream gages	National	Discovery Data Repository
Locations of past flood claims and repetitive loss properties	CIS Report	Contact the geospatial data coordination lead at your RSC referenced earlier in this document.
Locations of clusters of Letters of Map Change	National	See National Operating Procedure
Known flooding issues not represented on effective FIRMs or listed in Coordinated Needs Management Strategy database	Regional/State/Local	
Areas of planned development	Regional/State/Local	

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Data	Data Source	Location
Areas of land use change datasets	National	
	Regional/State/Local	
Locations of ongoing projects or updated stream studies (e.g. highway improvements)	Regional/State/Local	
Locations of wave and tide gauges	N/A	
Locations of wind gauges	N/A	
Proposed inland limit of the Primary Frontal Dune, if present	N/A	
Locations of any beach nourishment or dune restoration projects	N/A	
Comparison of preliminary stillwater elevations with effective stillwater elevations	Regional/State/Local	
Available effective study data	National	See National Operating Procedure
Orthophotography	National	See National Operating Procedure
Proposed discussion areas, problem areas, areas of proposed mitigation projects	Regional/State/Local	
Land use and soil information	Land Use	See National Operating Procedure
	Soils	
Reference points to locate areas with flooding issues	Regional/State/Local	
Hydraulic structures	Culverts	Regional/State/or Local
	Levees, Dams, Bridges	See National Operating Procedure
Coastal structures, including flood protection structures, shoreline structures, manmade embankments, surge conveyance pathways, and shoreline change data	N/A	
Local structure and topographic data from the existing hazard mitigation plans	Regional/State/Local	

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Data	Data Source	Location
Historic inundation areas and high water marks	Historic Riverine Inundation Areas	See National Operating Procedure
	Storm Surge Inundation Areas	See National Operating Procedure
	High Water Marks	Regional/State/ or Local
Clusters or locations of Individual Assistance/Public Assistance grants and locations of grant projects completed, planned, or underway	National	See National Operating Procedure
Locations of projects and structures completed or planned for FEMA Hazard Mitigation Assistance grant programs or mitigation funds from other agencies or entities, such as the Small Business Administration	National	See National Operating Procedure
Other information on FEMA grants, as described in G&S Appendix I	Regional/State/Local	HMA Tracking Tool
Any data deficiencies identified in hazard mitigation plans	Regional/State/Local	
Information from FloodSmart on market penetration	FEMA	<a href="https://www.floodsmart.gov/">https://www.floodsmart.gov/</a>
Community Assistance Visits / Community Assistance Contacts	National	Discovery Data Repository
Community Rating System class information	National	See National Operating Procedure
Information from other Federal agencies	National Only	See National Operating Procedure
Information from State agencies, non-profit organizations, universities, etc.	Regional/State/Local	
Current community plans, ordinances, or programs to alleviate flooding or manage stormwater	Regional/State/Local	
Other known hazards with geographical boundaries (e.g. earthquake faults)	Tsunami	Discovery Data Repository
	Landslide	Discovery Data Repository
	Volcanic Eruptions	Discovery Data Repository
	Wildfire	Discovery Data Repository

# State Geospatial Data Coordination Procedure

Data	Data Source	Location
Information on active disasters	Regional/State/Local	<a href="mailto:morgan.holloway@fema.dhs.gov">morgan.holloway@fema.dhs.gov</a>
Campgrounds, recreational areas, emergency access routes, etc.	National	Discovery Data Repository
Federal Grants Pre /Post Disaster	Regional	<a href="mailto:Greg.Tatara@fema.dhs.gov">Greg.Tatara@fema.dhs.gov</a>
Critical Facilities	Regional/State	<a href="mailto:lorena.reyes@fema.dhs.gov">lorena.reyes@fema.dhs.gov</a>

## Data Distribution Process for State Data

Illinois GIS data and map services are available at <https://clearinghouse.isgs.illinois.edu/>, Illinois Natural Resources Geospatial Data Clearinghouse hosted by the Illinois State Geological Survey. Reproduction or re-distribution of copyrighted digital data sets or products derived there from outside of licensee's organization or entity is expressly forbidden. The only exception is redistribution to consultants working for the licensee, and then only for purposes, related to work for the licensee. Such consultants may not further reproduce or redistribute these data sets.

Compressed Illinois 2011 orthoimagery files are in the public domain free-of-charge at <https://clearinghouse.isgs.illinois.edu/>. Uncompressed Illinois 2011 orthoimagery files are available in the public domain for a small fee on CD-ROM from the Illinois State Library.

## Federal Nationwide Geospatial Data Holdings

Information about nationwide holdings and programs of Federal agencies is available from the Mapping Information Platform web site at <https://www.usgs.gov/core-science-systems/national-geospatial-program/national-map>.

## Finding and Accessing Other Existing Geospatial Data

Find below information about and links to ways of searching for additional geospatial data available for the State. These capabilities can be useful for finding geospatial data other than the statewide and Federal data listed above, including those of special governments, counties and parishes, municipalities, tribes, universities, and other organizations.

## Clearinghouses and Inventories for the State

## State Geospatial Data Coordination Procedure

- Illinois Natural Resources Geospatial Data Clearinghouse hosted by the Illinois State Geological Survey at <https://clearinghouse.isgs.illinois.edu/>

# State Geospatial Data Coordination Procedure

- Illinois Atlas at <http://IllinoisAtlas.com>
- U.S. Fish and Wildlife Service at <http://www.fws.gov/data/statdata/ildata.html>
- Illinois Datasets at <http://www.uis.edu/gis/projects/data/#Illinois>

## National Elevation Dataset (NED) and 3D Elevation Program (3DEP)

These systems allow the search of orthophoto and elevation project information entered by Federal and other organizations. The NEP system can be accessed at <https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/ngce/elevation/>. The 3DEP system can be accessed at <https://www.usgs.gov/core-science-systems/ngp/3dep>

## Geospatial One-Stop

Geospatial One-Stop, available at <http://www.geodata.gov>, provides access to geospatial data from many sources. Two parts of the site that should be investigated are the “data categories” for existing data and the “marketplace” for data that are planned or in-work and for potential partners for new data collection activities.

## Working with People

### Useful State and Federal Contacts

The main contacts for the State’s geospatial activities and Federal agencies’ representatives in State are available on the Mapping Information Platform web site at <https://hazards.fema.gov/contacts/statecontacts/contacts.asp?page=IL>

Wilcox, Dan  
GIS Coordinator  
Illinois Department of Transportation  
2300 S. Dirksen Parkway  
Springfield, IL 62764  
Phone: 217-524-0031  
Email: [dan.wilcox@illinois.gov](mailto:dan.wilcox@illinois.gov)

### Involving the State’s Geospatial Coordinator in Flood Studies

N/A

# State Geospatial Data Coordination Procedure

## State Coordination Process for Building Geospatial Partnerships

N/A

### Finding Local Geospatial Contacts

Local contacts, including those from special government districts (for example, a regional planning commission); counties, parishes, or equivalent governments; tribes, municipal governments; and other organizations (for example, local universities) also have geospatial data that can help a flood insurance study. Contact information is available from the FEMA archive and web searches at government link portals such as <https://hazards.fema.gov/contacts/statecontacts>.

The Illinois GIS Association at <http://www.ilgisa.org> has a membership list which includes many county and municipal representatives. The contact is Rick Church at [execdir@ilgisa.org](mailto:execdir@ilgisa.org) (Executive Director) ILGISA, 800 Roosevelt Road, Building C Suite 312, Glen Ellyn, IL 60137; Phone: 630-942-6584

### Provide Feedback on This Procedure

When you find information in this Procedure or in other FEMA or State resources that are outdated, please tell the geospatial data coordination lead in the Regional Support Center what was wrong and the correct information (if you know it). Use the contact information for the lead listed in the section Purpose of the Procedure.

The lead will use your feedback to update this Procedure.